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EUCLID is a project funded by the EU in the context of H2020. The objective of the EUCLID project is to contribute to secure the production of food for the increasing worldwide population while developing sustainable production approaches to be used in the European and Chinese agriculture. The project will exploit knowledge developed in the last decades and will explore new methods of IPM to provide solutions to pest management for specific problems of European and Chinese farmers for a few important and emblematic crops that represent different production systems. These include leafy vegetables, table and wine grapes and tomatoes. These crops also represent different production systems. As one of the partners of the EUCLID consortium, the MISTRAL team at INRA-Avignon will contribute its experience in the development of biological control agents of diseases of fruit and vegetable crops and in elucidating life history and evolutionary ecological processes that can be leveraged to innovate new means to manage plant health that are compatible with sustainable agriculture and agro-ecological principles. We will present the objectives and workpackages of EUCLID and the research that the MISTRAL team will develop pertinent to the management of fungal and bacterial diseases of the model crops of this project.